AMENDMENT UNDER 37 C.F.R. § 1.111

Application No.: 10/553,196

**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

Attorney Docket No.: Q89903

application:

LISTING OF CLAIMS:

1. (original): A titania nanotube having a length of 1 μm or more.

2. (original): The titania nanotube according to Claim 1 the diameter is  $0.1 \mu m$  or

less.

3. (original): The titania nanotube according to Claim 1 or 2 wherein the aspect

ratio is 100 or more.

4. (previously presented): A sensor having the titania nanotube according to Claim

1 or 2 and an electrode in which the titania nanotube and the electrode are connected.

5. (currently amended): A method for producing a-the titania nanotube of Claim 1.

comprising a step of dispersing a titania powder in a sodium hydroxide aqueous solution at a

temperature of 60°C or more.

6. (original): The method according to Claim 5 wherein the titania powder has an

average particle diameter of 50 nm or less.

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7. (original): The method according to Claim 5 or 6 wherein the amount of the titania powder is 0.01 part by weight or more and 0.1 part by weight or less based on 100 parts by weight of a sodium hydroxide aqueous solution.

- 8. (previously presented): The method according to Claim 5 or 6, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.
- 9. (original): The method according to Claim 8 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 3 M or more and 13 M or less.
- 10. (original): The method according to Claim 9 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 7 M or more and 12 M or less.
- 11. (previously presented): The method according to Claim 5, wherein dispersion is conducted at 90°C or more and 120°C or less.
- 12. (previously presented): The method according to Claim 5, wherein dispersion is conducted by stirring or irradiation with an ultrasonics.
- 13. (original): The method according to Claim 12 wherein dispersion is conducted by stirring.

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14. (previously presented): A sensor having the titania nanotube according to Claim 3 and an electrode in which the titania nanotube and the electrode are connected.

15. (previously presented): The method according to Claim 7, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.